

In the Claims

1-10. (cancelled)

11. (currently amended) A method for endoscopic application of self-closing medical clips, comprising the steps of:

placing a distal end of a catheter tube in a body of a living being to be treated;

arranging at least one self-closing medical clip with relatively movable legs in the catheter tube adjacent the distal end by an operator located on a proximal end of the catheter tube, the clip having a first kink in a first area of each leg extending outwardly and increasing a distance between the legs and a second kink in a second area nearer a distal leg end of the clip than the first area but spaced from the distal leg end extending inwardly and forming a point of mutual support for the legs;

pushing the clip out of the distal end;

opening the clip by an actuator having an actuating element with a pull cable acting on the clip, being movable longitudinally in the catheter tube, being actuated by the operator and having a control part converting an actuating force of the actuating element into a motion opening the legs of the clip, the clip being connected to the pull cable by a rear end crosspiece connecting the legs of the clip, the rear end crosspiece having two adjacent through holes through which the pull cable extends in a loop connecting an advancing strand extending from the operator to the rear end crosspiece to a retreating strand extending to the operator from the rear end crosspiece; and

detaching the actuating element from the clip after opening of the clip to release and close the legs of the clip to apply the clip.

12. (previously presented) A method according to claim 11 wherein the legs of the clip are symmetrical, are mirror images of one another and do not cross one another.

13. (previously presented) A method according to claim 11 wherein a plurality of other clips, similar to the one clip, are arranged in succession in the catheter tube; and

after application of the clip at the distal end of the catheter tube, the actuating device is functionally linked to the clip next following in the catheter tube.

14. (currently amended) A device for endoscopic application of self-closing medical clips in a body of a living being, comprising:

a catheter tube having a distal end placeable in the body and a proximal end placeable outside the body;

an operator at said proximal end;

an actuator extending in said catheter tube from said operator in an area adjacent said distal end, having an actuating element with a pull cable movable longitudinally in said catheter tube and controlled by said operator, and having at least one control part with a distal end edge on a sleeve-shaped receiving part; and

at least one clip adjacent to and directly engaging said distal end edge and having a part received in said actuating element and two adjacent legs, said legs having first kinks extending outwardly and increasing a distance between said legs in first areas of said legs and second kinks extending inwardly and forming a mutual support for said legs in second areas of said legs nearer to a distal leg end of said clip than said first area, but spaced from said distal leg end without said legs crossing one another, said clip being connected to said pull cable by a rear end crosspiece connecting said legs of said clip, said rear end crosspiece having two adjacent through holes through which said pull cable extends in a loop connecting an advancing strand extending from said operator to said rear end crosspiece to a retreating strand extending to said operator from said rear end crosspiece;

whereby said legs are opened by said first kinks engaging said control part when said clip is inserted into said sleeve-shaped receiving part which converts an actuating force of said actuating element into an opening motion of said legs with said second areas engaging one another.

15. (currently amended) A device according to claim 14 wherein
~~said actuating element comprises a pulling element; and~~
said distal end edge comprises an internal beveled control surface.

16. (cancelled)

17. (currently amended) A device according to claim 1614 wherein
said rear end crosspiece comprises a section between said through holes forming a
predetermined breaking point fracturable by a pulling force of said pull cable via said loop
thereof to detach said pull cable from said clip, said through holes being parallel and laterally
offset.

18. (previously amended) A device according to claim 17 wherein
a blocking element is located on said distal end of said catheter tube, said blocking
element permitting passage of said sleeve-shaped receiving part only in an exit direction forward
from said catheter tube and supporting said sleeve-shaped receiving part against motion
rearwardly into said catheter tube effected by the pulling force of said pull cable.

19. (previously amended) A device according to claim 18 wherein
said blocking element comprises a tube piece mounted on said distal end of said catheter
tube and having an end part forming a collet with jaws extending longitudinally, said jaws
normally biased to reduce a width of a passage through said collet in a normal position thereof,
being elastically spreadable radially outwardly from the normal position by said sleeve-shaped
receiving part passing through said passage and being returnable to the normal position to form a
support for said sleeve-shaped receiving part against the pulling force of the pull cable after said
sleeve-shaped receiving part emerged from said collet.

20. (currently amended) A device according to claim 1614 wherein
at least one other clip and at least one other control part, similar to said one clip and said
one control part, respectively, are mounted in succession with said one clip and said one control
part in said catheter tube; and
said advancing strand and said retreating strand extend through respective through holes
in a rear end crosspiece joining legs of said other clip.

21. (currently amended) A device according to claim 1614 wherein
said actuator comprises a tube movable in said actuator tube and having an end edge
forming a plunger contacting a facing back end of said sleeve-shaped receiving part.

22. (currently amended) A device according to claim 19 wherein
said distal edge comprises an internal beveled control surface; and
sleeve-shaped receiving part comprises a back end opposite said beveled control surface
with an axially projecting shoulder receivable in said collet to center said sleeve-shaped receiving
part relative to said blocking element.

23. (currently amended) A self-closing medical clip, comprising:
a crosspiece having two adjacent through holes therein;
first and second legs extending adjacent one another from said crosspiece to distal ends
thereof and biased toward one another, said crosspiece extending between and directly
connecting adjacent ends of said legs;

a pull cable extending through said through holes in a loop connecting an advancing strand extending to said crosspiece and a retreating strand extending away from said crosspiece and laterally adjacent said advancing strand;

first kinks in said legs extending outwardly and increasing a distance between said legs in first areas of said legs; and

second kinks in said legs extending inwardly and forming a mutual support for said legs in second areas of said legs, said second areas being nearer said distal ends than said first areas but being spaced from said distal ends.

24. (previously presented) A self-closing medical clip according to claim 23 wherein said legs do not cross one another.

25. (currently amended) A self-closing medical clip according to claim 23 wherein said crosspiece has ~~two adjacent through holes with a predetermined breaking point extending therebetween~~ between said through holes, said through holes being parallel and laterally offset.

26. (previously amended) A self-closing medical clip according to claim 23 wherein said distal ends of said legs are bent toward one another at a location spaced from said second kinks.

27. (previously amended) A method according to claim 11 wherein distal ends of the legs are bent toward one another at a location spaced from said second kinks.

28. (previously amended) A device according to claim 14 wherein distal ends of said legs are bent toward one another at a location spaced from said second kinks.

29. (new) A method for endoscopic application of self-closing medical clips, comprising the steps of:

placing a distal end of a catheter tube in a body of a living being to be treated; arranging at least one self-closing medical clip with relatively movable legs in the catheter tube adjacent the distal end by an operator located on a proximal end of the catheter tube, the clip having a first kink in a first area of each leg extending outwardly and increasing a distance between the legs and a second kink in a second area nearer a distal leg end of the clip than the first area but spaced from the distal leg end extending inwardly and forming a point of mutual support for the legs;

pushing the clip out of the distal end;

opening the clip by an actuator having an actuating element acting on the clip, being movable longitudinally in the catheter tube, being actuated by the operator and having a control part converting an actuating force of the actuating element into a motion opening the legs of the

clip by pressing on each first kink inwardly to cause the legs to pivot at and about the mutual support such that leg portions between the second kinks and distal leg ends open; and

detaching the actuating element from the clip after opening of the clip to release and close the legs of the clip to apply the clip by the resiliency of the clip alone without attaching another member to the clip.